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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,696	09/09/2003	Rene Duzac	CIS03-40(7847)	3157

47654 7590 07/28/2006

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EXAMINER

CARPIO, IVAN HERNAN

ART UNIT	PAPER NUMBER
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2841

DATE MAILED: 07/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/658,696

Applicant(s)

DUZAC, RENE

Examiner

Ivan H. Carpio

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 5/8/06.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-4, 6-12, 14-20, 22-26 and 28-32 is/are pending in the application.
4a) Of the above claim(s) 25, 26, 28 and 31 is/are withdrawn from consideration.
5) ☒ Claim(s) 32 is/are allowed.
6) ☒ Claim(s) 1-4, 6-12, 14-20, 22-24 and 30 is/are rejected.
7) ☒ Claim(s) 29 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 08 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 01/05/2006 have been fully considered but they are not persuasive. The applicant's only argument is that Chen does not teach or suggest a latch that couples a support assembly having the elements of a support, a connection portion, a lip, and a coupling member, to the faceplate, as claimed by the applicant, examiner respectfully disagrees. Looking at figure 2 we note a latch that couples a support assembly having the elements of a support (Fig. 1, element 10), connection portion (the far end of element 20 below element 21), a lip (examiners figure), a coupling member (Fig. 2, element 21), to the faceplate (Fig. 2, element 30).

Election/Restrictions

The applicant elects group I with traverse. The applicant correctly points out that claims 29 and 30 belong with group I, therefore claims 1-4,6-12,14-21,22-24,29,30, and 32 will be examined for prosecution.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,2,3,4,6,8,9,10,11,12,14,16,17,18,19,20,22,24 and 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen (US 6568542).

With respect to claim 1, Chen discloses a support assembly for support at least one cable connected to a circuit board assembly, the support assembly comprising: a support defining a first plane (Fig. 1, element 10); a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly (Fig. 4, element 40); an a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly (Fig. 1, element 20) and the at least one cable exerts a load on the support (page 7, column 2, lines 41-44); and a coupling member (Fig. 2, element 21) in communication with the support the coupling member configured to engage a faceplate in communication with the circuit board assembly via an opening (Fig. 2, element 32), defined by the faceplate, to form a latch to couple the support assembly to the faceplate.

With respect to claims 2, 10 and 18 Chen discloses the lip of the support assembly defines a stop, the stop substantially perpendicular to the first plane defined by the support and configured to abut a faceplate in communication with the circuit board assembly, the stop configured to limit rotation of the support relative to the

faceplate when the at least one cable exerts a load on the support (see examiners figure).

With respect to claim 3, 11, 19 Chen discloses a coupling member in communication with the lip, the coupling member configured to engage the faceplate via an opening, defined by the faceplate, to form a latch, the latch configured to couple the support assembly to the faceplate (Fig.1, element 30).

With respect to claim 4, Chen teaches the support assembly in accordance with claim 3 wherein the lip (Fig. 2, element 20) defines a height relative to the support the height of the lip configured to align the coupling member (Fig. 2, element 21) with a chassis fastening mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate.

With respect to claim 6,14 and 22 Chen teaches the coupling member is configured to align with a chassis fastening mechanism coupled to the faceplate and adjacent to the opening defined by the faceplate (Fig. 4 and page 7, column 3, lines 8-10).

With respect to claim 8, 16 and 24Chen teaches the support comprises a handle having a first arm and a second arm in communication with the first arm, the handle configured to couple with the circuit board assembly; and the lip comprises a first lip in communication with the first arm, the first lip defining a first plane substantially perpendicular to the first arm and a second lip in communication with the second arm, the second lip defining a second plane substantially perpendicular other second arm, the first lip and the second lip configured to limit deflection of the handle relative to the

circuit board assembly when the at least one cable exerts a load on the handle (see examiner's figure).

With respect to claim 9, Chen teaches a faceplate assembly comprising: a faceplate configured to couple to a circuit board assembly (Fig. 4, element 40), the faceplate defining an opening configured to provide access to a cable connector of the circuit board assembly (Fig. 4); and a support assembly for supporting at least one cable connected to the cable connector of the circuit board assembly, the support assembly in communication with the face plate and the support assembly having: a support defining a first plane (Fig. 1, element 10); a connection portion in communication with the support, the connecting portion configured to couple with the circuit board assembly a lip in communication with the support, the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with circuit board assembly (Fig. 1, element 20) and the at least one cable exerts a load on the support (page 7, column 2, lines 41-44) and a coupling member (Fig. 2, element 21) in communication with the support the coupling member configured to engage a faceplate in communication with the circuit board assembly via an opening (Fig. 2, element 32), defined by the faceplate, to form a latch to couple the support assembly to the faceplate.

With respect to claim 12 and 20 Chen teaches the faceplate comprises a chassis fastening mechanism (page 7, column 3 lines 8-10); and the lip defines a height relative to the support the height of the lip configured to align the coupling member fastening

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mechanism coupled to the faceplate and adjacent to the first opening defined by the faceplate (Fig. 1, element 20).

With respect to claim 17, Chen teaches a circuit board module comprising; a circuit board assembly having a circuit board and a cable connector coupled to the circuit board; and a faceplate assembly including; a faceplate coupled to the support mount of the circuit board assembly and defining an opening to provide access to the cable connector (Fig. 4); and a support assembly for supporting at least one cable connected to the cable connector of the circuit board assembly (Fig. 1), the support assembly in communication with the faceplate and the support assembly having: a support defining a first plane (Fig. 1, element 10); a connection portion in communication with the support, the connection portion configured to couple with the circuit board assembly (Fig. 4, element 40), and a lip in communication with the support the lip defining a second plane substantially perpendicular to the first plane defined by the support, the lip configured to limit deflection of the support relative to the circuit board assembly when the connection portion couples with the circuit board assembly (Fig. 1, element 20) and the at least one cable exerts a load on the support (Page 7, column 2, lines 41-44), a coupling member (Fig. 2, element 21) in communication with the support the coupling member configured to engage a faceplate in communication with the circuit board assembly via an opening (Fig. 2, element 32), defined by the faceplate, to form a latch to couple the support assembly to the faceplate.

With respect to claim 30 Chen teaches that the coupling member comprises a tab extending (Fig. 2, element 21) from the support in a direction substantially perpendicular to the first plane defined by the support.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7, 15, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen (US 6568542) in view of Tirrell (US 6791841).

As noted above in the rejections under 35 USC 102(e), Chen discloses the invention in accordance with claims 1, 9 and 17 however, Chen does not disclose expressly wherein the connection portion is configured to couple with a ground plane of the circuit board assembly.

The Tirrell reference, however, discloses the connection portion is configured to couple with a ground plane of the circuit board assembly (page 10, column 6, lines 8-19).

Chen and Tirrell are analogous art because they are from the same field of endeavor (cable rack).

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At the time of the invention, it would have been obvious to a person of ordinary skill in the art to couple the faceplate with the ground plane of the circuit board assembly to the cable rack of Chen.

The suggestion or motivation for doing so would have been obvious in view of the teaching of Tirrell in column 6, line 17 in reducing EMI emissions.

Therefore, it would have been obvious to combine Tirrell with Chen to form a cable rack with a faceplate connects to the ground plane of the circuit board to obtain the invention as specified in claims 7, 15, and 23.

Allowable Subject Matter

Claim 29 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 32 is allowable.

The following is a statement of reasons for the indication of allowable subject matter: There is simply no evidence in the prior art teaching that the connection portion is configured to couple with a circuit board of the circuit board assembly as in the claimed combination, furthermore there is no evidence making this modification obvious.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ivan H. Carpio whose telephone number is 571-272-8396. The examiner can normally be reached on M-R 6:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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